Jet Propulsion Laboratory

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May 15, 2008 9110-08-17 NS: DM

TO: Distribution

FROM: David Morris

SUBJECT: Minutes for the Joint Users Resource Allocation Planning Committee Meeting held

May 15, 2008 JPL Building 126-Room 200 1PM.

NEXT JURAP MEETING: Thursday, June 19, 2008 JPL Bldg 126, Room 200, 1PM

Attendees:

R. Best	L. Efron	J. Jai	D. Morris	M. Slade
S. Chhan	L. Fairley	A. Kniepkamp	J. Neelon	K. Williams
J. Cucchissi	D. Finnerty	M. Machado	C. Parker	
D. Dillard	J. Hall	E. Martinez	J. Ross	

The Joint Users Resource Allocation Planning Committee meets monthly to review the status of Flight Projects, the requirements of other resource users, and to identify future requirements and outstanding conflicts. The previous JURAP meeting was held on April 17, 2008 at the Jet Propulsion Laboratory.

Introductory Remarks – D. Morris

Welcomed the attendees to the JURAP meeting. Briefly discussed the agenda for the meeting to include a presentation by Mr. K. Williams on MESSENGER NAV Mercury 2 Flyby. Polar has been shut down and is off the mission set, Ulysses still operational: shutting down S-band transmitters, bleeding fuel, etc. to maintain enough heat to keep the fuel from freezing. PHX is on target for landing on May 25.

Other brief discussions are as follows:

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- Launch of LRO / LCROSS scheduled for November 24, 2008 and if slipped, they have 2-4 opportunities spaced every two weeks.
- Launch of GOES-O no earlier than December 12, 2008.
- Chandrayaan-1 launch date is uncertain; DSN RF compatibility testing may begin this week unofficial note.
- Reminder for all Mission and Projects to submit inputs for August DSN RAR Review no later than May 30, 2008.
- DSS-54 return to service this week with no issue.
- DSS-15 return to service was delayed one week expect it back up by next week.
- Madrid Commercial Power: Running on split power, Donna will give status on new July proposals, and tentatively scheduled for installation in week 28 (mid July) and in week 30 (end of July) requires two (three consecutive day blocks) or three (two day blocks) on off shift hours to test capability, still being negotiated.
- DSS-34 begins downtime June 17, 2008 for Ka-Band Phase-2, Az Track Repair, and Acq Aid and all mirrors may need to be re-aligned at all the frequency bands. With discussion on a two-week extension for this downtime, WIND identified a concern that without an operational S-band transmitter for DSS-45, WIND would have insufficient radiometric data for a planned maneuver in early October. In fact, without an operational S-band transmitter at DSS-65, the DSN would not have backup S-band transmit capability at Madrid when DSS-66 is removed from service in October!
- Goldstone Complex Power downtime (~14 hours) will resume in September.

MESSENGER NAV Mercury 2 Flyby

Topics Discussed by - K. Williams

- Heliocentric Trajectory
- Encounter Geometry
- Delivery Errors and Costs
- Navigation Considerations
- Delta-DOR Timeline
- Doppler/Ranging Timeline
- Summary
- See http://messenger.jhuapl.edu for more information

Resource Analysis Team

Mid-Range Status – L. Fairley

JURAP Distribution - 3 - May 15, 2008

- Week 30 31 have been released to DSN Scheduling
- Week 37 38 were released to the Remote Users

Week 32 - 36 have remaining facility and equipment conflicts

Mid-Range scheduling process has scheduled 20 weeks ahead of real-time and there are currently 11 weeks of conflict-free schedules. Conflict resolution is required for the following three weeks 09/01/2008 through 09/21/2008

On-going special studies/activities: MSL

- Shift for MSL TCM-2 to the December 4, 2009 to February 4, 2010 timeframe, depending on actual launch day.
- Analysis results reveal that should TCM-2 shift to the requested timeframe, it would have some 70M contention. Primarily, this is with Odyssey and MRO and should be negotiable.
- Completed two special studies for future proposed missions
- Just as a reminder for all Projects and Missions: The deadline to submit responses is on or before May 30 for the August DSN Resource Allocation Forecast Review.

See the link below for details:

http://rapweb.jpl.nasa.gov/RAR-RedAug2008.html

Antenna Downtime Status and Forecast:

The following downtimes are being studied for 2008-2010:

- SPC-60 is requesting additional time for Commercial Power Installation no earlier than July 8, 2008. They are requesting two three-day blocks or three two-day blocks on off shift hours.
- SPC-40 is requesting complex downtime for A Station Power Grid.
 - Week 22 DOY 153 2200-0200 scheduled
 - o Week 34 DOY 237 2200-0600 proposed
 - o Week 38 DOY 265 2200-0400 proposed
 - o Week 39 DOY 272 2200-0400 proposed
- DSS-14 Grouting for week 31 in 2008 for 3 5 days.
 - o The grouting has been placed in the schedule and all conflicts have been resolved.
- DSS-14 Grouting has been proposed for week 35 in 2008 for 3 days.

- DSS-14 Grouting has been proposed for week 44 in 2008 for 3 days.
- DSS-55 downtime for Paint Repair beginning in June 2008 has been moved to September weeks 36 - 41.
- DSS-54 downtime for ACQ Aid Installation is scheduled for October, weeks 42 and 43 of 2008.
 - Due to Cassini critical support, the proposed downtime DOYs would be 287 –
 290 and 292 294. Will check for TERRA views. Cassini view is 0400-1600 will check on actual time needed.
- DSS-43 downtime for Life Extension and Depot Level Maintenance starting October 3, 2008 has been moved to start January 5, 2009 and proposed to end April 12, 2009 weeks 2 15 which add an extra two weeks to the end time.
- DSS-63 downtime for Life Extension has been shortened to May 4, through August 2, 2009, weeks 19 - 31.
- DSS-24 downtime for painting has been proposed for April May of 2009, weeks 14 22. A study is being performed.
- DSS-34 downtime for Azimuth Track Replacement has been proposed for 2010, local summer.
 - o It is suggested to move to October, November of 2009 weeks 41-47.
- DSS-65 downtime for Life Extension Elevation for October, November of 2009 has been proposed for weeks 31 - 41 in 2010.
- As a result of the reduction of downtime for DSS-43 & DSS-63 in 2008 & 2009, it is requested to recover that time in 2010, local spring, summer or fall after DSS-14 RTS.
 - o DSS-43 is proposed for August 30 to November 29, 2010 weeks 35-48
 - o DSS-63 is proposed for February 28 to May 29, 2011 weeks 9 -21.
- DSS-15 downtime for Pintle Bearing has been proposed for May 3, through June 27, 2010, weeks 18 - 25.

Downtime request for 2008

The following proposals for 14-hour complex downtimes are requested by GDSCC.

- Corrective maintenance "G86/G81 Transfer Switch Electrical Maintenance" in May has been changed to NET September 2008.
 - o This was in the schedule for week 22 DOY 147/0830-2230. This downtime will be scheduled no earlier than week 36 and negotiated in the Mid-Range negotiation meetings.
- Preventative maintenance "G91 2400V Switchgear Electrical Maintenance" in June has been changed to NET September 2008.

- This is in the schedule for no earlier than week 38 and will be negotiated in the Mid-Range negotiation meetings.
- Preventative maintenance "Echo Tie-Line Electrical Maintenance" in September has been changed to NET October 2008.
 - o This is in the schedule for no earlier than week 40 and will be negotiated in the Mid-Range negotiation meetings.
- Preventative maintenance "Apollo Tie-Line Electrical Maintenance" in October has been changed to NET November 2008.
 - o This is in the schedule for no earlier than week 43 and will be negotiated in the Mid-Range negotiation meetings.
- Preventative maintenance "SPC-10 Electrical Maintenance" in November.
 - o This is in the schedule for no earlier than week 45 and will be negotiated in the Mid-Range negotiation meetings.

Additional time is being requested

- Two 8-hour complex downtimes in December 2008 for cutover, final connection and testing of the new G86 Substation, Mars Site.
- Fourteen 4-hour periods between July 2009 and January 2010 for testing of G86 Substation, Mars Site.

The following proposals for antenna downtimes are requested.

MDSCC Annual Antenna Inspections including Annual Servo Testing at DSS-63, -65, -54 and -55 as follows:

- Servo Testing for DSS-55 is scheduled for DOY 192/0600-1400 week 28
- Servo Testing for DSS-63 is scheduled for DOY 193/0600-1400 week 28
- Servo Testing for DSS-54 is scheduled for DOY 196/0600-1400 week 29
- Servo Testing for DSS-65 is scheduled for DOY 199/0600-1400 week 29
- Servo Testing for DSS-63 is scheduled for DOY 203/0600-1400 week 20 (will be deleted if week 28 is negotiated)
- Antenna Inspection for DSS-63 is scheduled for DOY 154/0600-1400 week 23
- Antenna Inspection for DSS-55 is scheduled for DOY 161/0600-1400 week 24
- Antenna Inspection for DSS-54 is scheduled for DOY 162/0600-1400 week 24

- Antenna Inspection for DSS-65 is scheduled for DOY 163/0600-1400 week 24
- HEF Transmitter Manifold Installation at DSS-15, -45 and -65 between July 2008 and June 2009 not to be scheduled concurrently with DSS-15 being scheduled first.

Closing statements: D. Morris